

OCT 31-2005 10:00

KENNAMETAL INC IP Dept.A

724 539 5903 P.07/10

Appl. No. 10/733,166
Amendment After Allowance in
Reply to Notice of Allowance & Fee(s) Due
and Notice of Allowability Mailed October 3, 2005

Docket No. K-2106
Patent

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (Previously Presented) A toolholder comprising:

a) a body having a pocket therein for receiving a cutting insert and

b) a lever pivotally mounted about a pivot fulcrum on the body wherein

the lever is capable of rotation only about the fulcrum and adapted to hold the cutting insert within the pocket, wherein the lever has a first end adjacent to the pocket for contacting the cutting insert and a second end opposite thereto, and wherein the pivot fulcrum is substantially closer to the first end than to the second end.

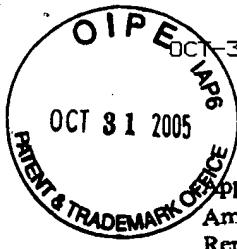
2. (Previously Presented) The toolholder according to claim 1, wherein the pocket has a floor and a back wall and wherein the lever is positioned to urge the cutting insert simultaneously against the floor and against the back wall of the pocket.

3. (Original) The toolholder according to claim 1, wherein the lever may be pivoted such that in a first position the lever contacts and clamps the cutting insert within the pocket and in a second position the lever is spaced from the cutting insert such that a cutting insert may be inserted within or removed from the pocket.

4. (Previously Presented) The toolholder according to claim 1, wherein the lever is a cam with a cam surface and a cam arm, wherein the first end of the lever is a first end of the cam and the second end of the lever is a second end of the cam.

5. (Previously Presented) The toolholder according to claim 4, wherein in the cam first position the second end of the cam protrudes from the toolholder and the cam is urged against the cutting insert and in the cam second position the second end of the cam is retracted toward the toolholder and the cam is separated from the cutting insert thereby permitting a cutting insert to be removed from or inserted within the pocket of the toolholder.

6. (Previously Presented) The toolholder according to claim 4, wherein the cam arm has a center of gravity spaced from the pivot toward the cam second end such that centrifugal force may urge the second end of the cam away from the body to more securely clamp the cutting insert within the pocket.



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7. (Original) The toolholder according to claim 1, further including a pivot pin about which the lever pivots, wherein the pivot pin is secured to the toolholder body.

8. (Previously Presented) The toolholder according to claim 3, wherein while stationary the lever is biased toward the first position.

9. (Previously Presented) The toolholder according to claim 8, wherein the lever is biased by a spring.

10. (Previously Presented) The toolholder according to claim 9, wherein the spring is a torsion spring.

11. (Previously Presented) The toolholder according to claim 10, wherein the torsion spring has a first end and a second end and wherein the torsion spring is mounted about the pivot such that the first end contacts the lever and the second end contacts the toolholder to bias the lever toward the first position.

12. (Previously Presented) The toolholder according to claim 11, wherein the lever further includes a recess to enclose the torsion spring.

13. (Previously Presented) The toolholder according to claim 9, wherein the spring is a coil spring.

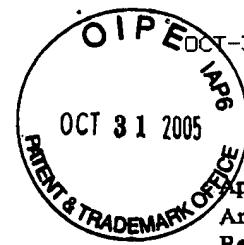
14. (Previously Presented) The toolholder according to claim 13, wherein the coil spring is positioned between the lever arm and the toolholder at a location away from the pivot such that the lever is biased in the first position.

15. (Previously Presented) The toolholder according to claim 1, further including a shim placed adjacent to the cutting insert within the pocket.

16. (Previously Presented) A rotatable toolholder for holding a cutting insert having a front face, a back face and a side wall that define a cutting edge at an intersection of the front face and the side wall, wherein the toolholder holds the cutting insert such that the cutting edge of the cutting insert protrudes from the toolholder comprising:

a) a body having at least one radially extending pocket to accept a cutting insert and

b) a lever pivotally mounted to the body through a pivot fulcrum, wherein the lever is adapted to hold the cutting insert within the pocket and is capable of rotation only about the fulcrum, and wherein the lever has a first end adjacent to the pocket



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for contacting the cutting insert and a second end opposite thereto, and wherein the pivot fulcrum is substantially closer to the first end than to the second end.

17. (Original) The toolholder according to claim 16, wherein the lever has a lever arm with a center of gravity spaced from the pivot such that centrifugal force may urge the center of gravity of the lever arm away from the body and act to more securely clamp the cutting insert within the pocket.

18. (Original) The toolholder according to claim 16, wherein in the stationary position of the toolholder the lever is biased to hold the cutting insert within the pocket.

19. (Currently Amended) A method for securing a cutting insert into the pocket of a toolholder, wherein the pocket has a floor and one or more walls and the cutting insert has a top and bottom surface, comprising the steps of:

a) positioning the cutting insert within the pocket of the toolholder such that the bottom surface of the cutting insert is against the floor and one or more walls of the pocket; and

b) rotating a lever pivotally mounted to the toolholder body to a first position about a pivot fulcrum against the top surface of the cutting insert to urge the cutting insert against the floor and one or more walls of the pocket and thereby secure the cutting insert within the pocket, wherein the lever is capable of rotation only about the fulcrum and wherein the lever has a first end adjacent to the pocket for contacting the cutting insert and a second end opposite thereto, and wherein the pivot fulcrum is substantially closer to the first end than to the second end.

20. (Previously Presented) The method according to claim 19, further including the step of biasing the lever toward the first position.

21. (Previously Presented) The method according to claim 20, wherein the lever further includes a lever arm and the center of gravity of the lever is positioned away from the pivot and further including the step of rotating the toolholder such that the lever arm is urged outwardly and the lever is further urged into the first position.